

Figure 1

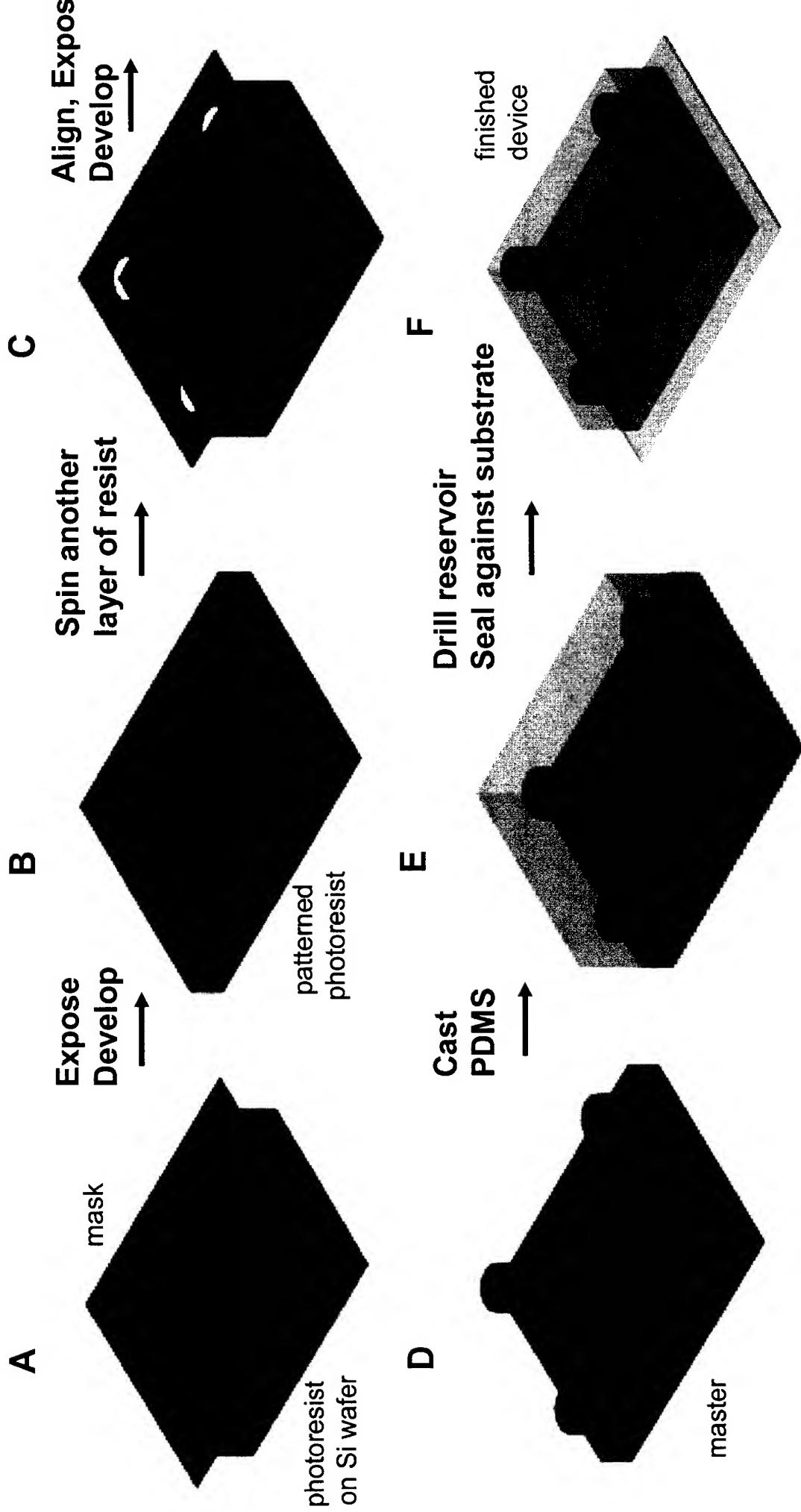


Figure 2

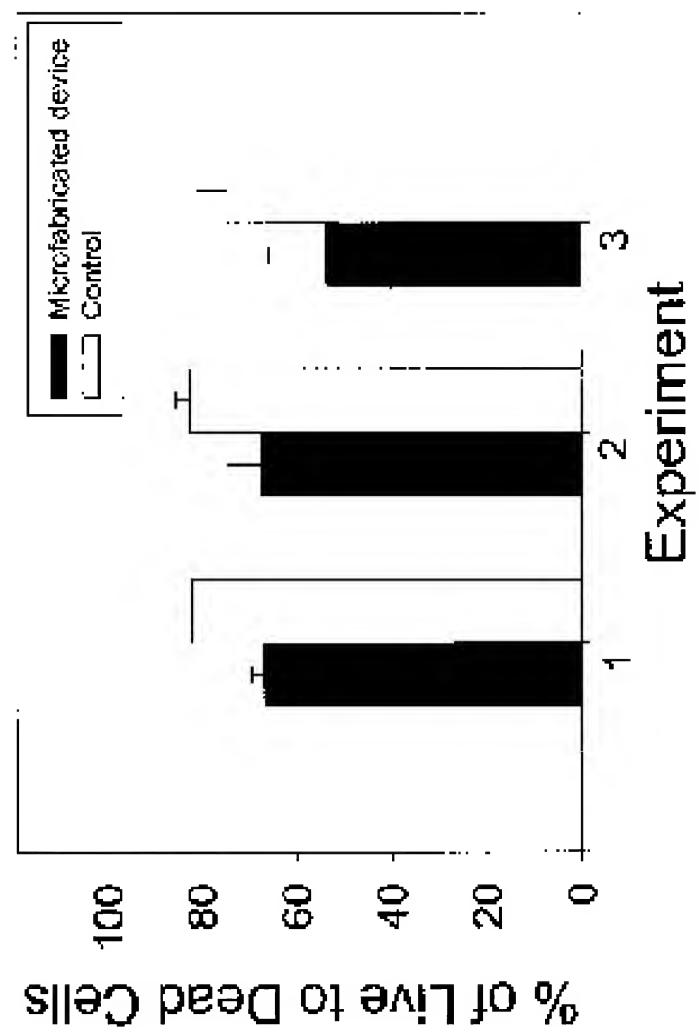
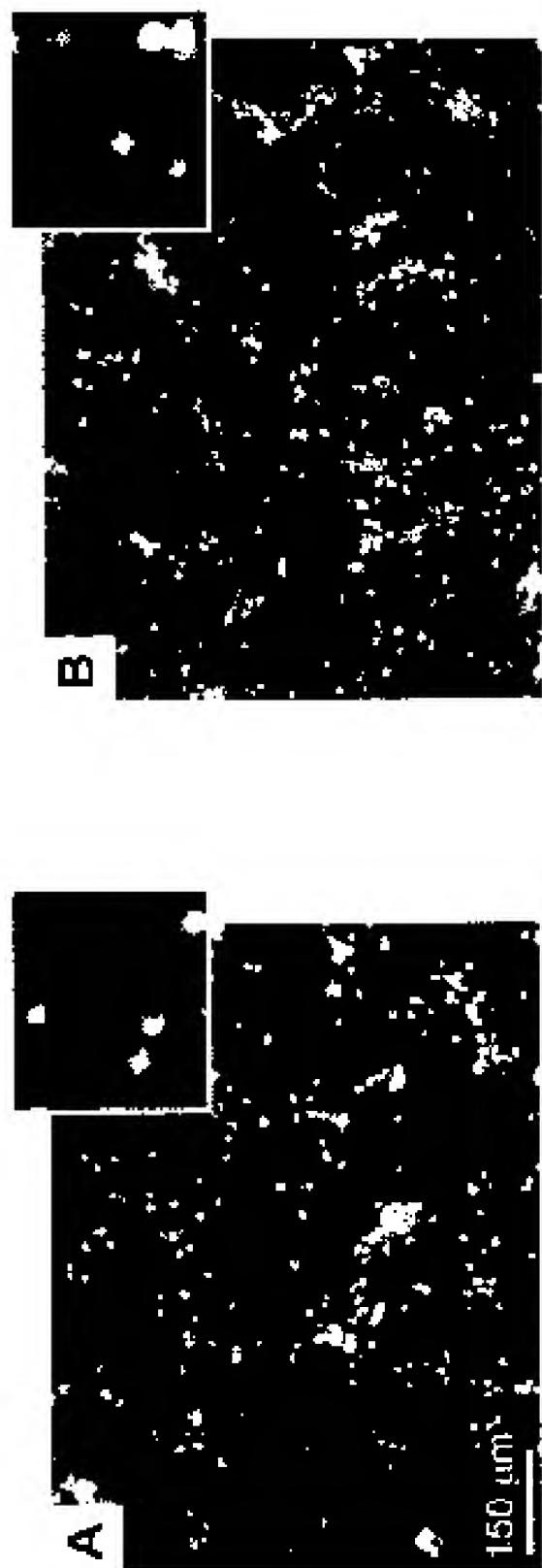
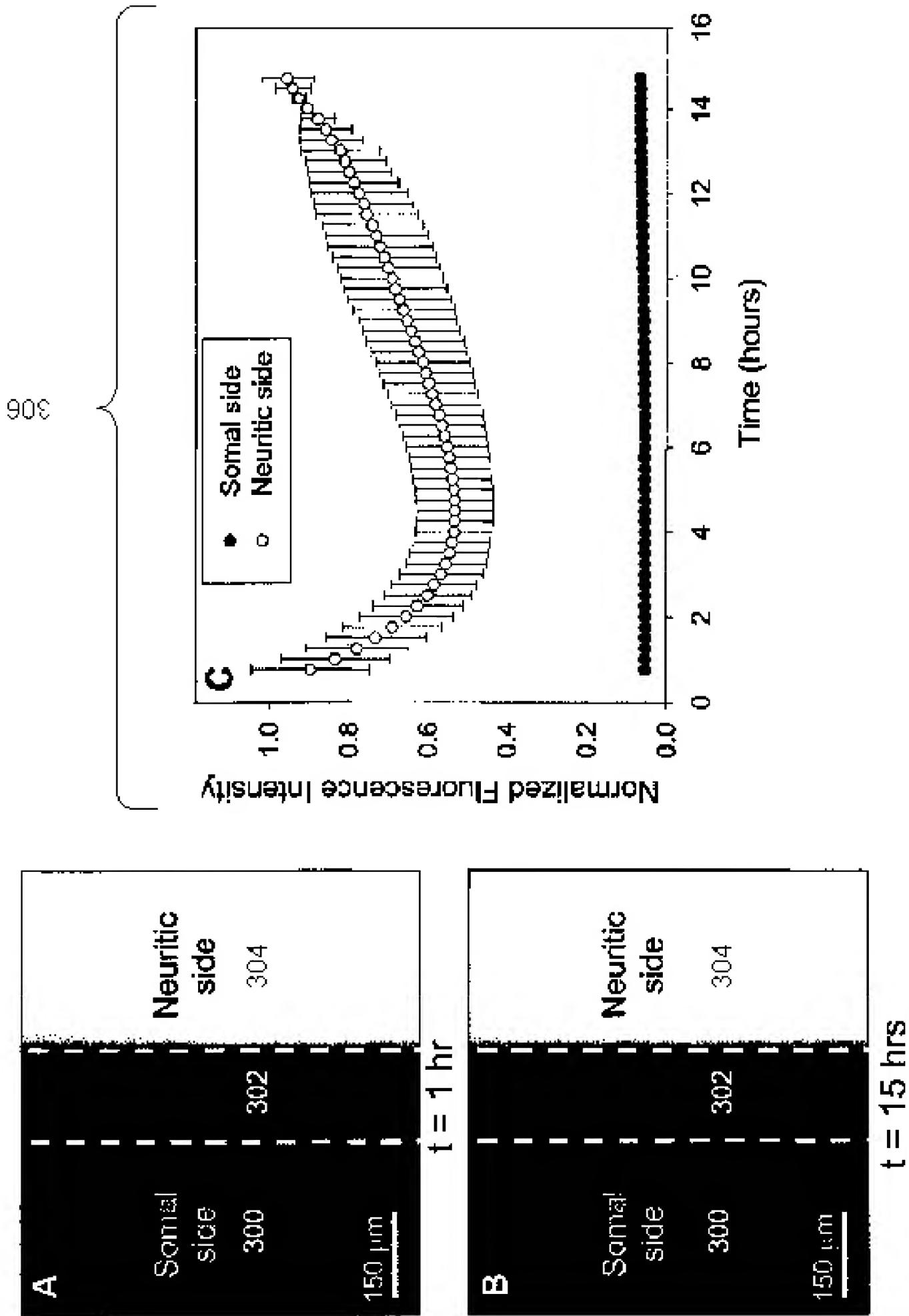


Figure 3



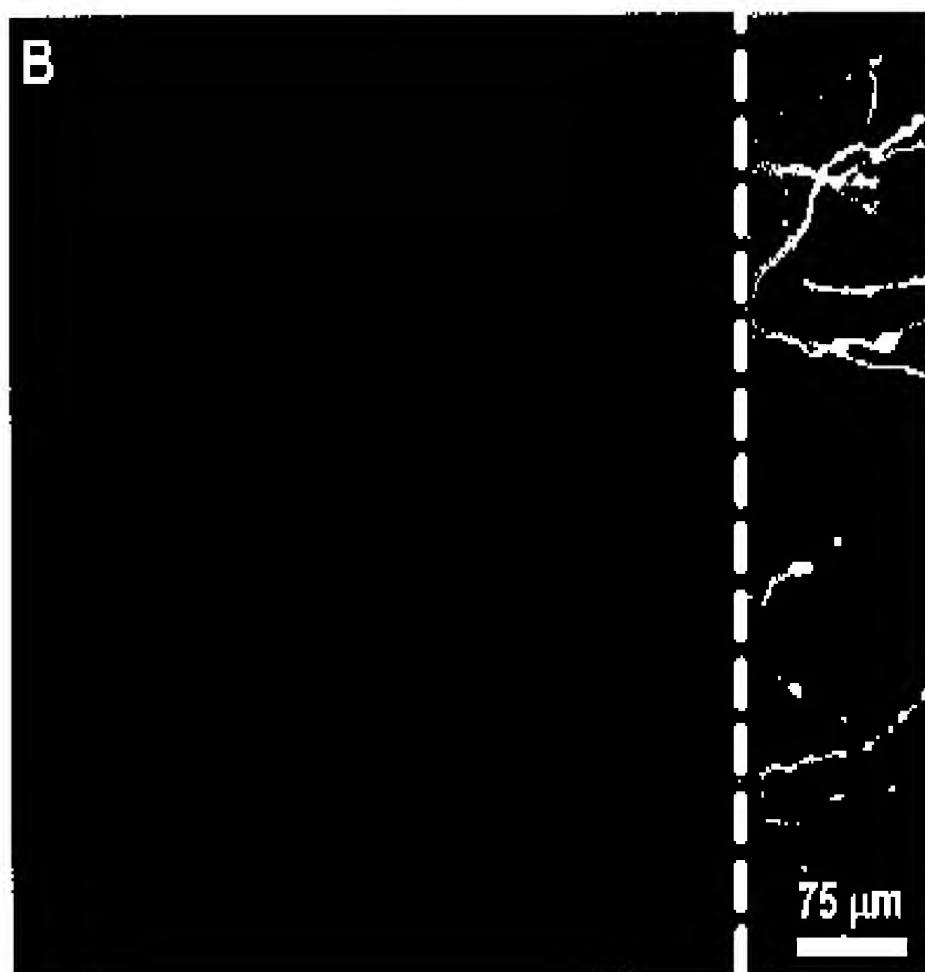
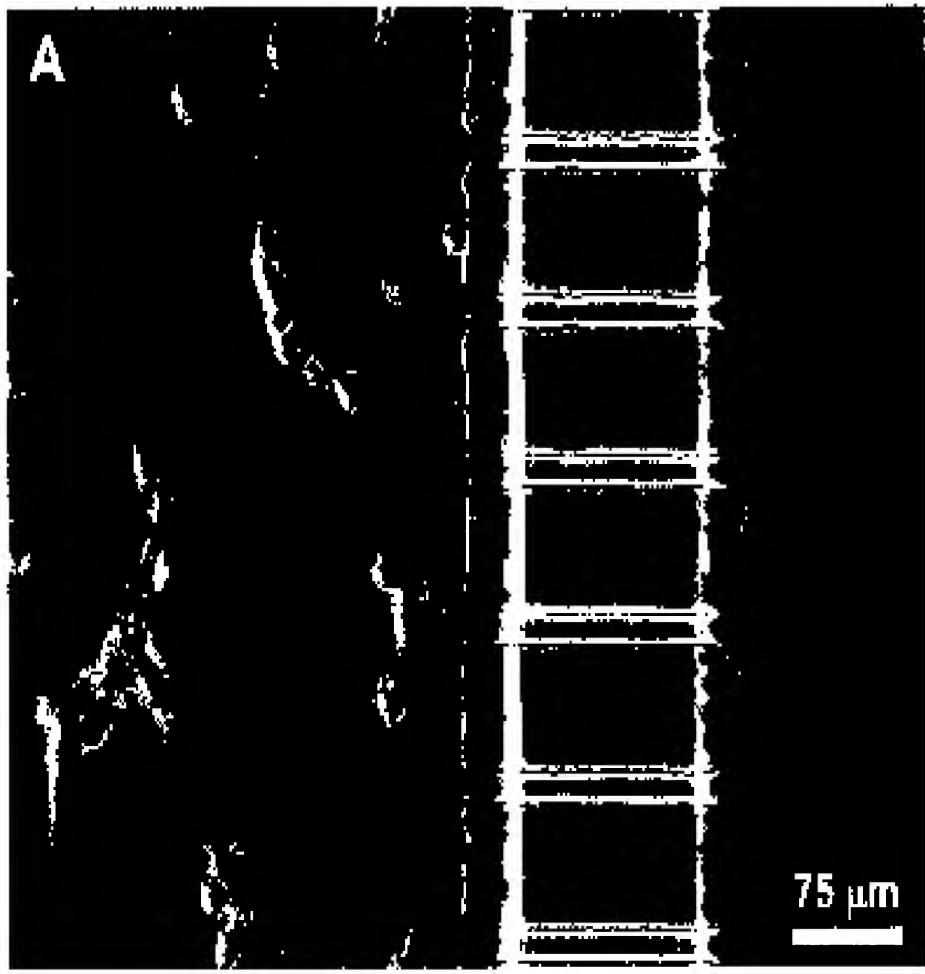
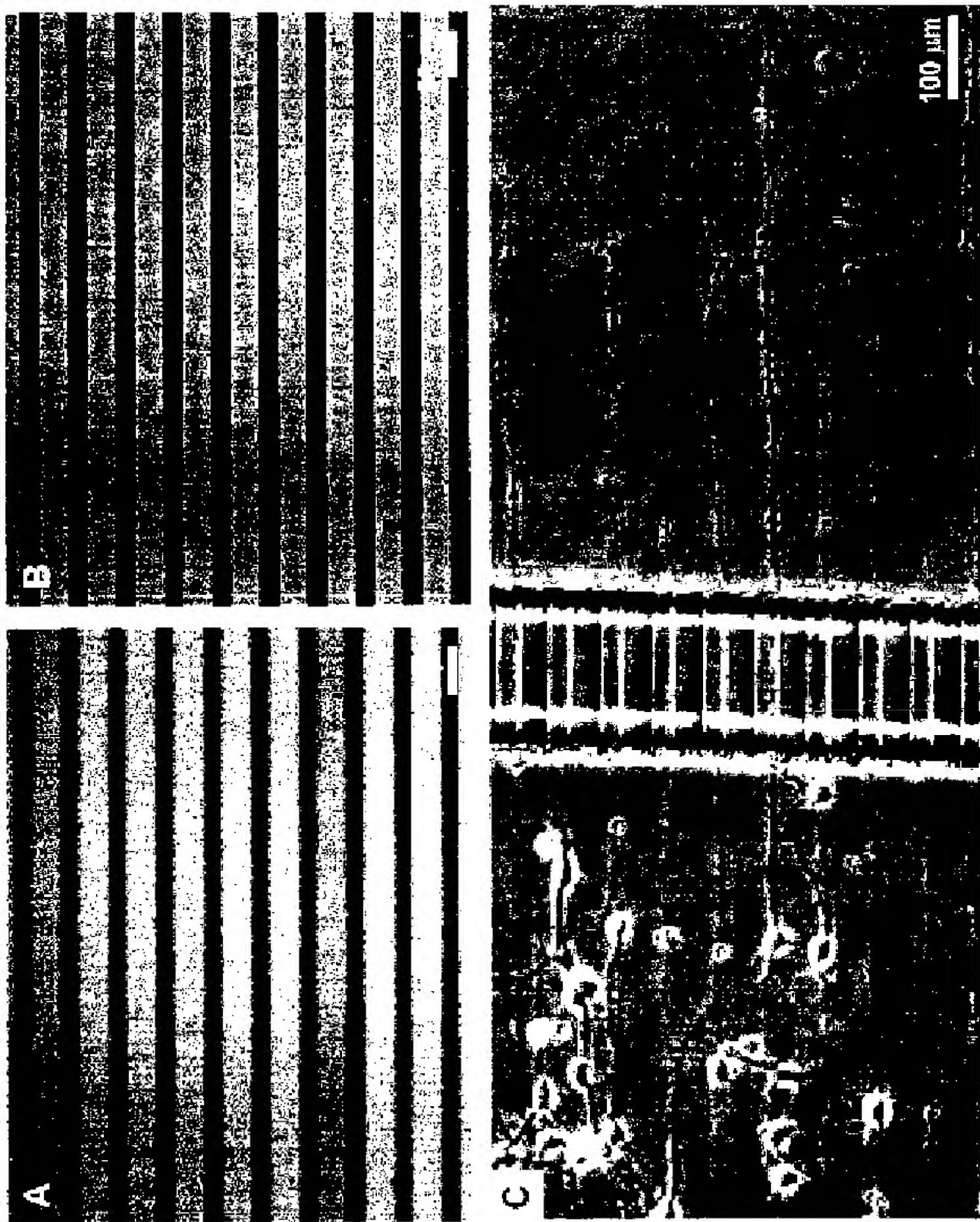
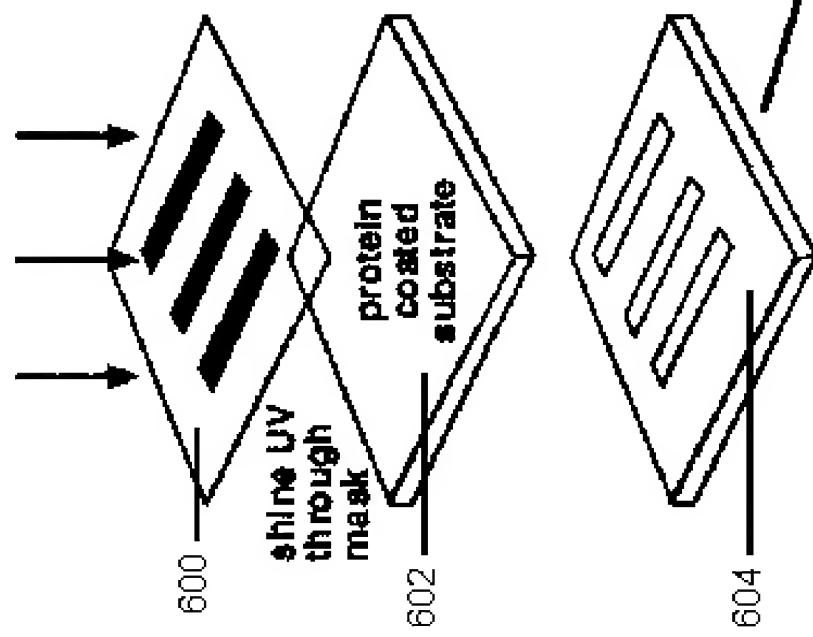


Figure 4

Figure 5



UV Lithography



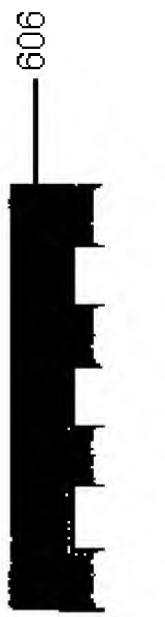
MIMIC Micromolding in capillaries



wick protein in solution
into microchannel

print protein
coated stamp

μ CP MicroContact Printing



614

patterned attachment
and growth of neurons

Figure 6

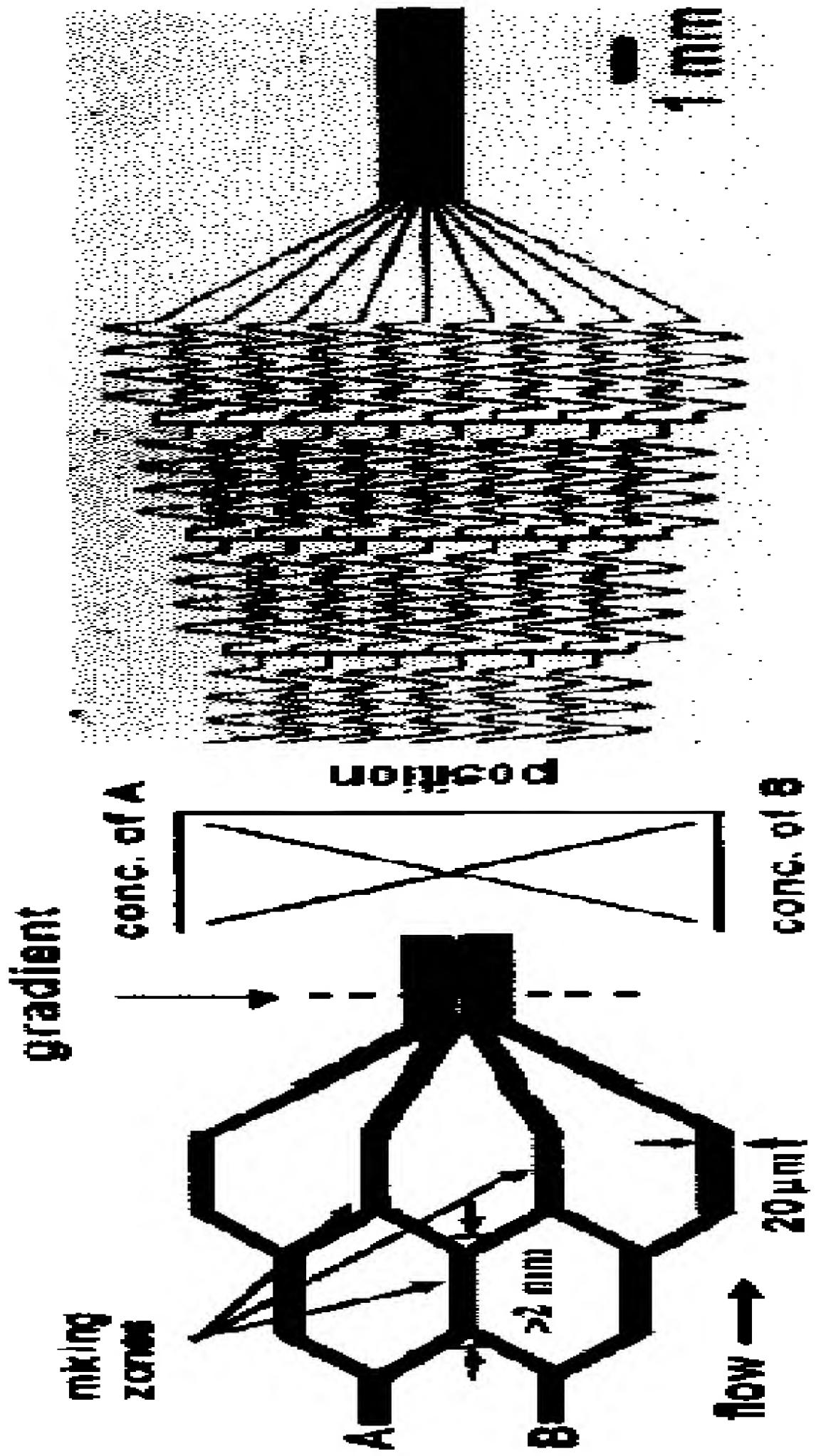
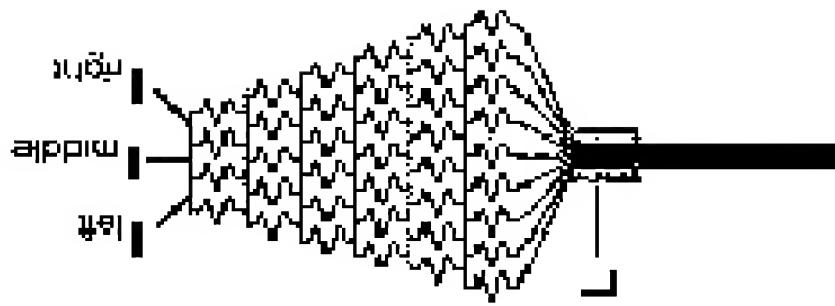
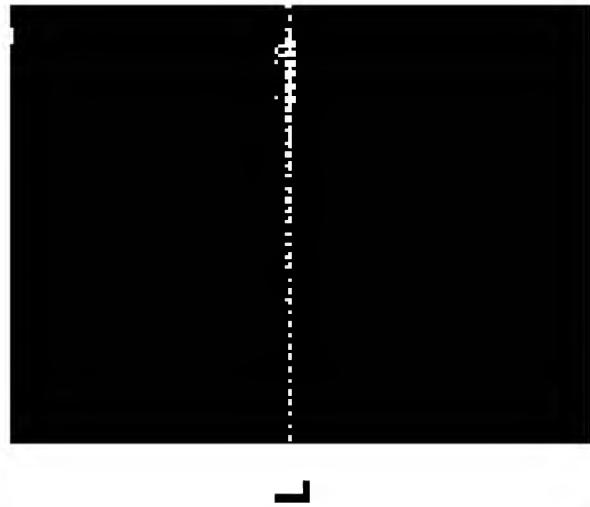


Figure 7

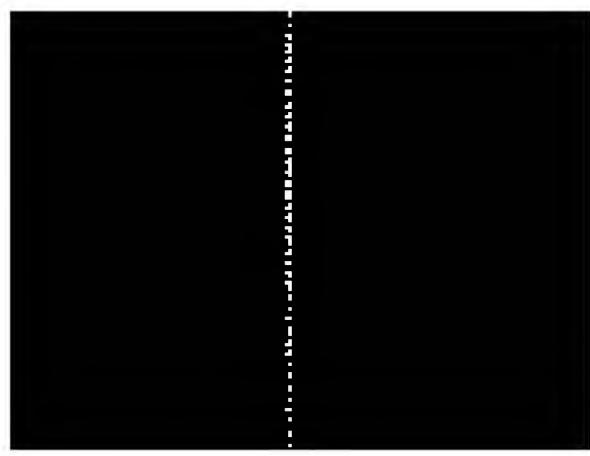
(a) 3 input / 8-output network



(b) $|_{\text{left}} = 0\%$,
 $|_{\text{middle}} = 50\%$,
 $|_{\text{right}} = 100\%$



(c) $|_{\text{left}} = 0\%$,
 $|_{\text{middle}} = 100\%$,
 $|_{\text{right}} = 50\%$



(d) $|_{\text{left}} = 50\%$,
 $|_{\text{middle}} = 0\%$,
 $|_{\text{right}} = 100\%$

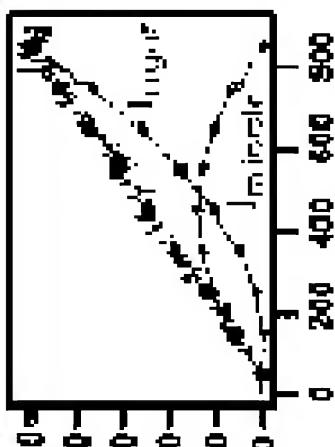
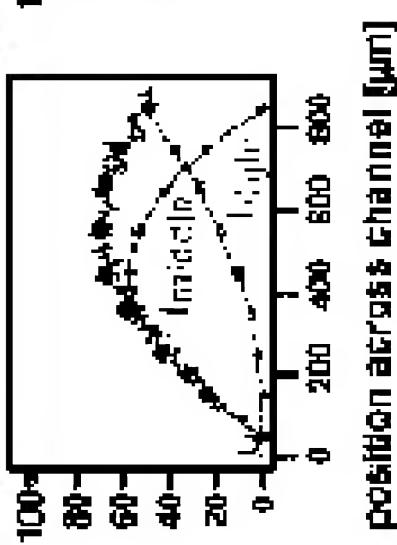
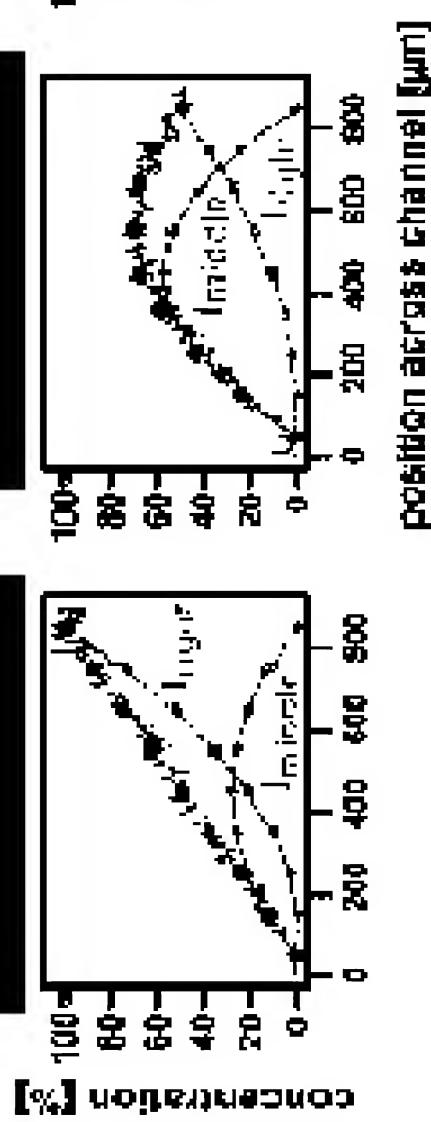
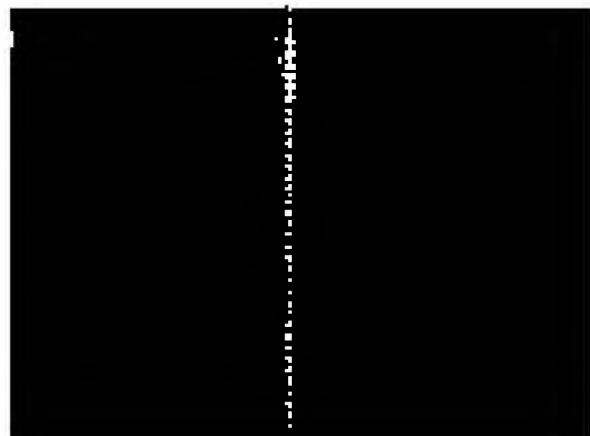


Figure 8

A)

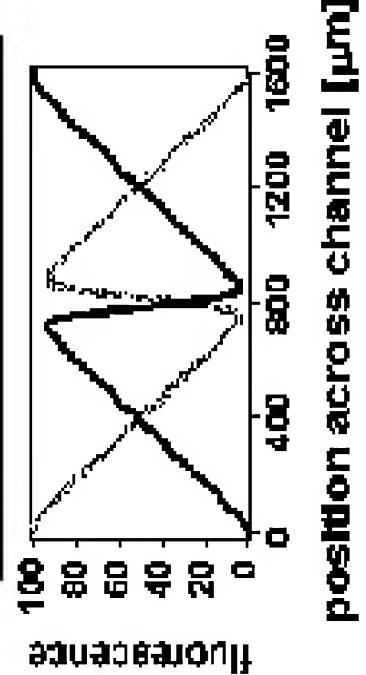
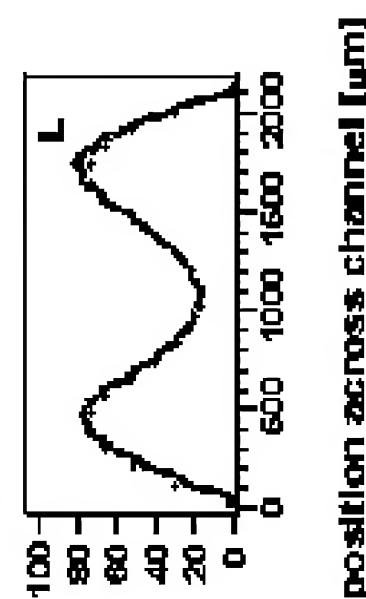
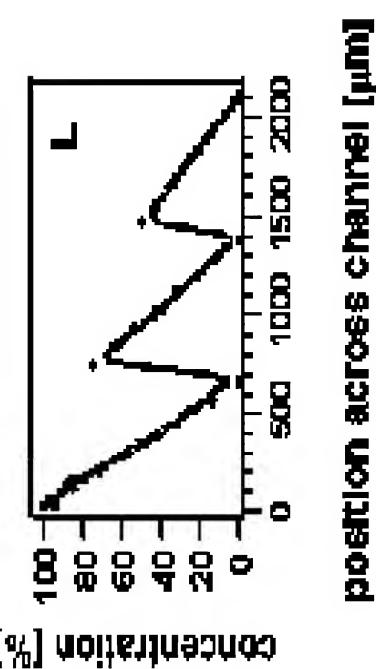
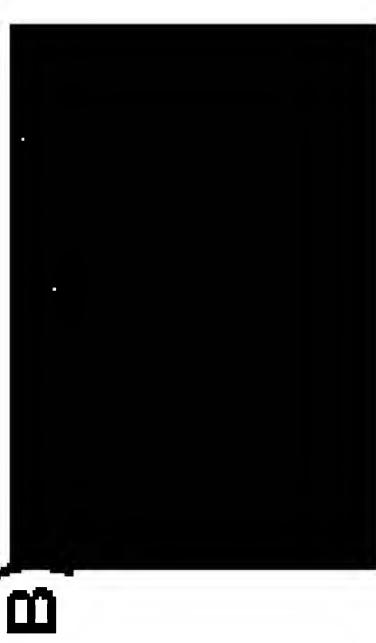
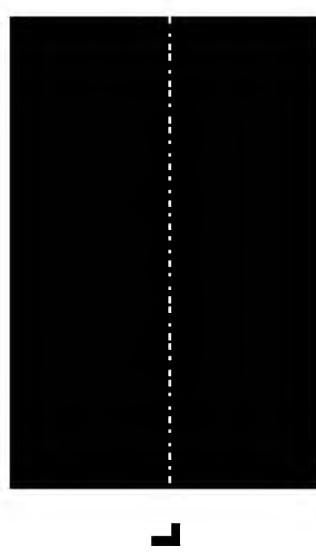
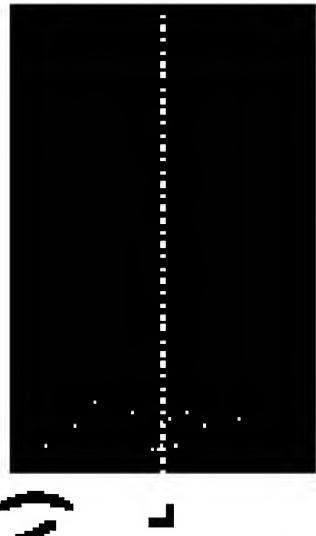


Figure 9

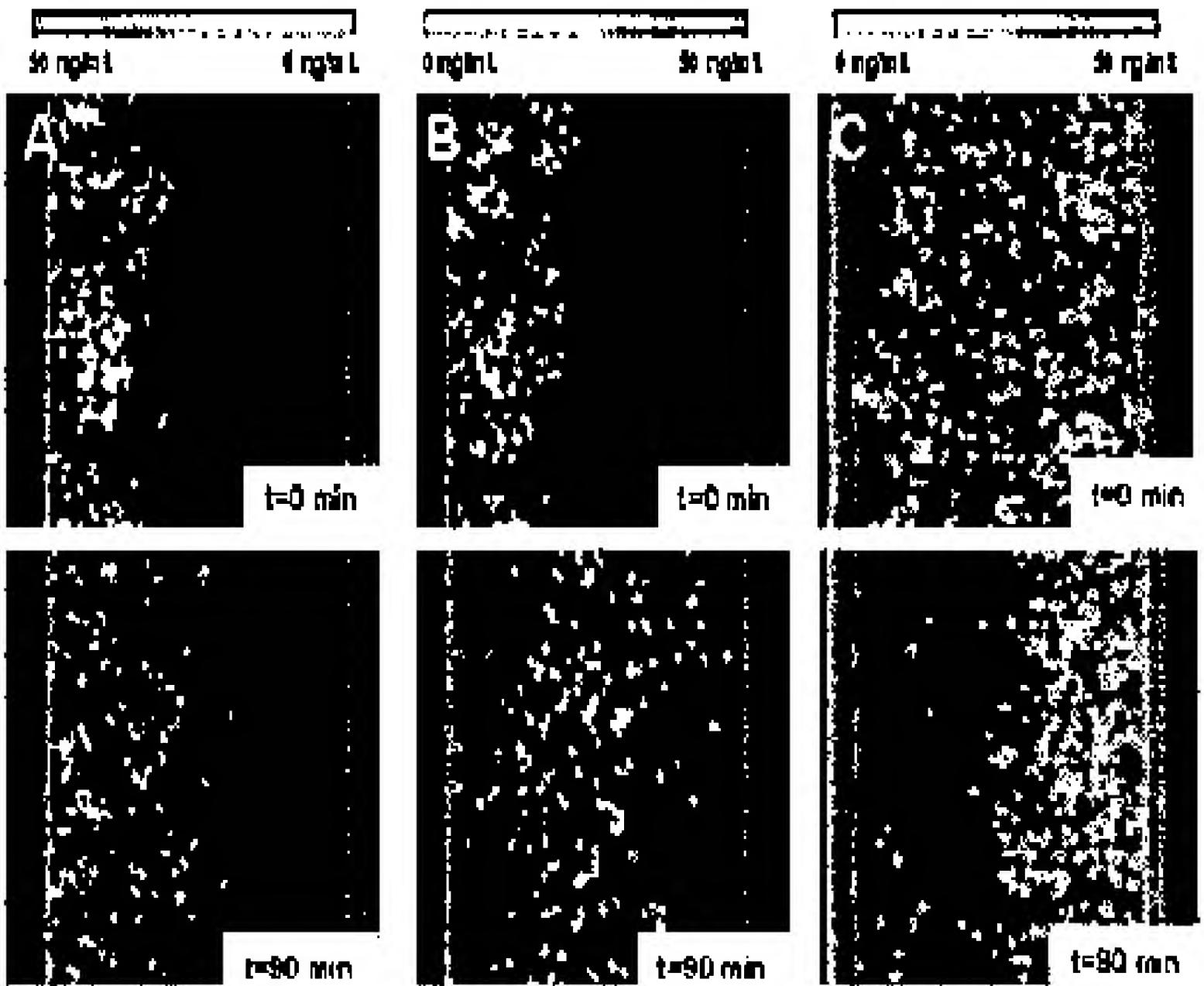


Figure 10

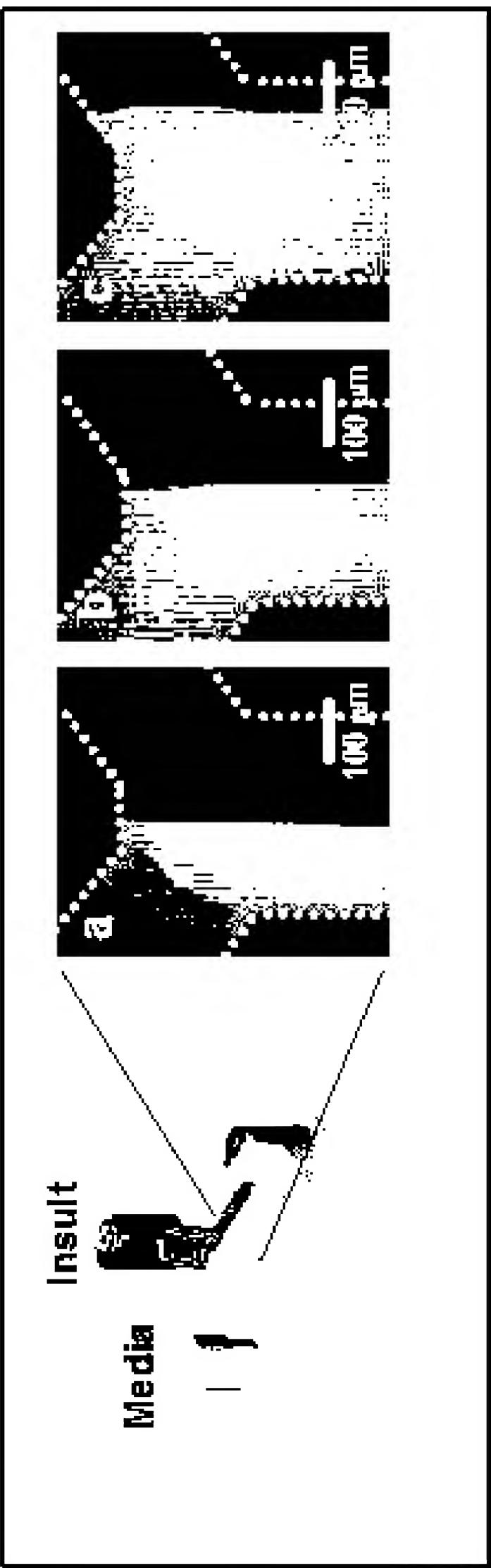


Figure 11

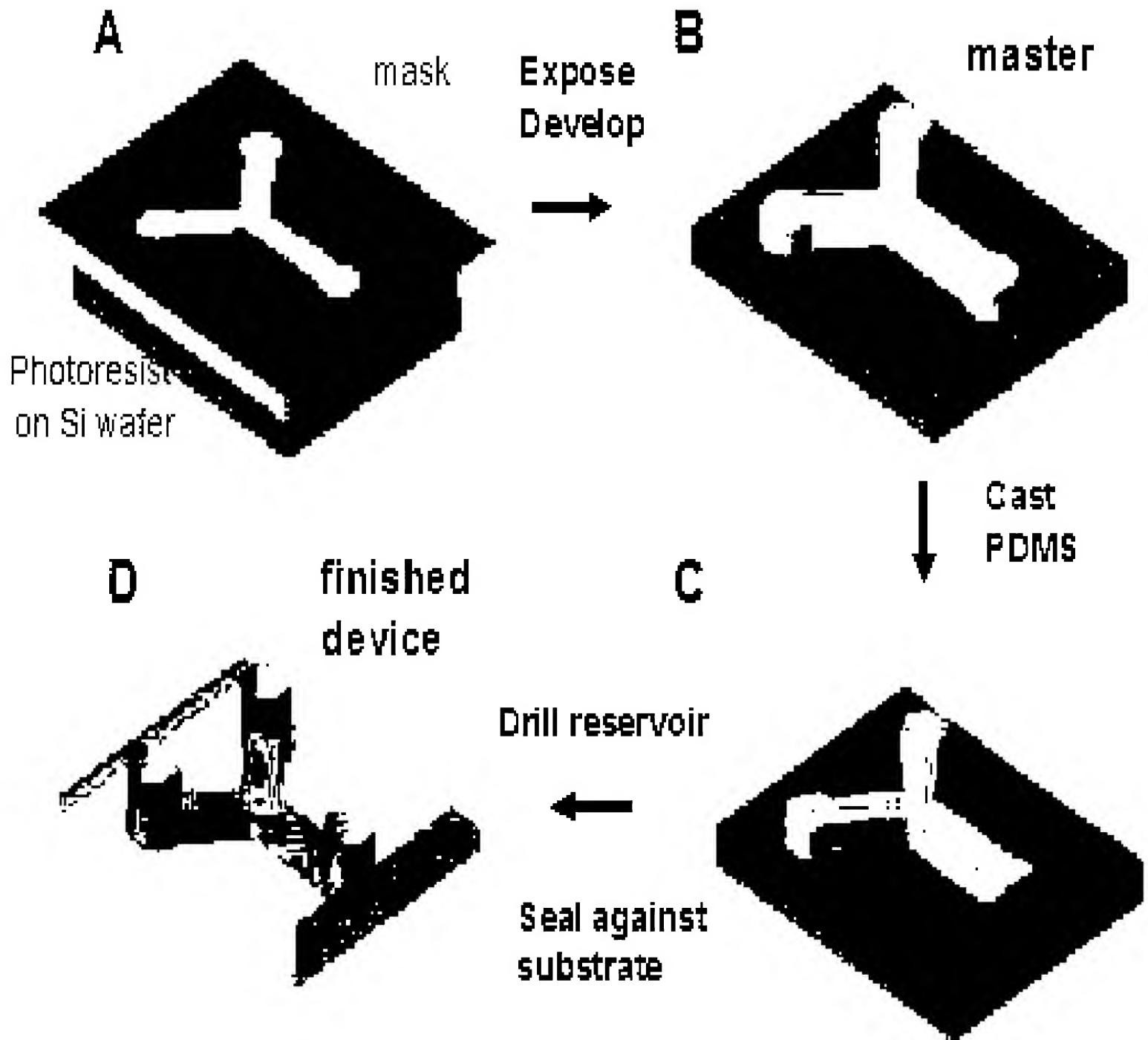


Figure 12